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1 Elastic Windows: a hierarchical multi-window World-Wide Web browser
Eser Kandogan, Ben Shneiderman
October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**
Full text available: pdf(1.69 MB) Additional Information: full citation, references, citings, index terms

Keywords: World-Wide Web, information visualization, user interfaces, window management

2 Access to graphical interfaces for blind users
W. Keith Edwards, Elizabeth D. Mynatt, Kathryn Stockton
January 1995 **interactions**, Volume 2 Issue 1
Full text available: pdf(1.76 MB) Additional Information: full citation, references, citings, index terms, review

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1 Interactive Editing Systems: Part II
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

2 An approach to support automatic generation of user interfaces
Prasun Dewan, Marvin Solomon
October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12 Issue 4
Full text available: pdf(3.55 MB) Additional Information: full citation, abstract, references, citings, index terms

In traditional interactive programming environments, each application individually manages its interaction with the human user. The result is duplication of effort in implementing user interface code and nonuniform—hence confusing—input conventions. This paper presents an approach to support automatic generation of user interfaces in environments based on algebraic languages. The approach supports the editing model of interaction, which allows a user to view all appli ...

3 A structural view of the Cedar programming environment
Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

4 Interactive Editing Systems: Part I
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(3.08 MB) Additional Information: full citation, citings, index terms

5 The X window system

Robert W. Scheifler, Jim Gettys

April 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 2

Full text available: pdf(2.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An overview of the X Window System is presented, focusing on the system substrate and the low-level facilities provided to build applications and to manage the desktop. The system provides high-performance, high-level, device-independent graphics. A hierarchy of resizable, overlapping windows allows a wide variety of application and user interfaces to be built easily. Network-transparent access to the display provides an important degree of functional separation, without significantly affec ...

6 A hierarchy-aware approach to faceted classification of objected-oriented components

E. Damiani, M. G. Fugini, C. Bellettini

July 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 3

Full text available: pdf(310.25 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a hierarchy-aware classification schema for obje ct-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructured from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conven ...

Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

7 Automatic recording agent for digital video server

Atsuyoshi Nakamura, Naoki Abe, Hiroshi Matoba, Katsuhiro Ochiai

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(932.31 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose and evaluate the performance of a number of methods for automatic recording of TV programs for digital video servers, which estimate the user's preference over TV programs based on her/his past viewing behavior and automatically record a selected number of TV programs believed to be of interest to the user. Our methods combine the so-called content-based filtering and social (or collaborative) filtering methods and are based on a certain class of on-line learning algorithms known a ...

8 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components

E. Damiani, M. G. Fugini, C. Bellettini

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Full text available: pdf(310.50 KB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conventio ...



9 From text to hypertext by indexing

Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

Keywords: constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs



10 A multi-view intelligent editor for digital video libraries

Brad A. Myers, Juan P. Casares, Scott Stevens, Laura Dabbish, Dan Yocum, Albert Corbett

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(7.73 MB) Additional Information: full citation, abstract, references, citings, index terms

Silver is an authoring tool that aims to allow novice users to edit di gital video. The goal is to make editing of digital video as easy as text editing. Silver provides multiple coordinated views, including project, source, outline, subject, storyboard, textual transcript and timeline views. Selections and edits in any view are synchronized with all other views. A variety of recognition algorithms are applied to the video and audio content and then are used to aid in the editing tasks. The ...

Keywords: digital video editing, informedia, multimedia authoring, silver, video library



11 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...



12 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

13 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages

Compuater Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available: pdf(9.03 MB) Additional Information: full citation, references

14 Screen reader/2: access to OS/2 and the graphical user interface

J. Thatcher

October 1994 **Proceedings of the first annual ACM conference on Assistive technologies**

Full text available: pdf(692.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Screen Reader/2 is IBM's access system for OS/2, providing blind users access to the graphical user interface (GUI) of Presentation Manager, to Windows programs running under OS/2, and to text mode DOS and OS/2 programs. Screen Reader/2 is a completely redesigned and rewritten follow-on to IBM's Screen Reader Version 1.2 for DOS.There has been considerable discussion about the technical challenges, difficulties, and inherent obstacles presented by the GUI. Not enough time and ene ...

15 A comparative study of man-machine interfaces in interactive systems

K. Maeda, Y. Miyake, J. Nievergelt, Y. Saito

October 1984 **ACM SIGCHI Bulletin**, Volume 16 Issue 2

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

This study compares and assesses the quality of a number of man-machine interfaces in a sample of interactive systems chosen to represent a wide spectrum of different applications, including: text editors, information retrieval, data communication and processing utilities, and programming environments. The purpose of this study is to develop a check-list for comparing and assessing man-machine interfaces, and to illustrate this technique by means of examples. As a consequence of this approach we ...

16 The why and wherefore of the Cornell Program Synthesizer

Tim Teitelbaum, Thomas Reps, Susan Horwitz

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: pdf(741.59 KB) Additional Information: full citation, abstract, references, citings, index terms

The Cornell Program Synthesizer is a syntax-directed programming environment that has been used in introductory programming courses since June, 1979. We present our experience with the Synthesizer by introducing its main features, by presenting our basic principles of design, and by discussing important design decisions.

17 Window sharing with collaborative interface agents

Charles Rich

January 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 1

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, citings, index terms

An implemented system is described which allows a software agent to collaborate with a human user using a shared application window. The system automatically controls input permission and also provides mechanisms for signalling and communication. A generalization of the system to multiple users and agents, called NShare, is compared with common window-sharing tools, such as SharedX. This work is part of a larger agenda to apply principles of human collaboration and discourse structure to human-c ...

18 Building real-time groupware with GroupKit, a groupware toolkit

Mark Roseman, Saul Greenberg

March 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 1

Full text available: pdf(2.74 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an overview of GroupKit, a groupware toolkit that lets developers build applications for synchronous and distributed computer-based conferencing. GroupKit was constructed from our belief that programming groupware should be only slightly harder than building functionally similar single-user systems. We have been able to significantly reduce the implementation complexity of groupware through the key features that comprise GroupKit. A runtime infrastructure

Keywords: GroupKit, computer-supported cooperative work, groupware toolkits, synchronous groupware, user interface toolkits

19 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

20 A dynamically self-adjusting structured editor

Nazim H. Madhavji, Nikos Leoutsarakos

May 1985 **Proceedings of the 1985 ACM SIGSMALL symposium on Small systems**

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings

Two major characteristics shared by most program editors are that they are static, as they operate within a single framework of a full program text, and that they are strictly language based. These characteristics are considered to be less than desirable, as they appear to restrict the development of production software. As a solution, a new kind of structured editor, based on program fragments, is proposed in this paper. This kind of editor is dynamic, as ...

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1 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

2 System R: relational approach to database management

M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Full text available: pdf(3.18 MB) Additional Information: full citation, abstract, references, citings, index terms

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

3 QuickTime VR: an image-based approach to virtual environment navigation

Shenchang Eric Chen

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(347.59 KB) Additional Information: full citation, references, citings, index terms

Keywords: environment maps, image registration, image warping, panoramic images, real-time display, view interpolation, virtual reality

4 Human-computer interface development: concepts and systems for its management
H. Rex Hartson, Deborah Hix
March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

5 The Pan language-based editing system
Robert A. Ballance, Susan L. Graham, Michael L. Van De Vanter
January 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 1

Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Powerful editing systems for developing complex software documents are difficult to engineer. Besides requiring efficient incremental algorithms and complex data structures, such editors must accommodate flexible editing styles, provide a consistent, coherent, and powerful user interface, support individual variations and projectwide configurations, maintain a sharable database of information concerning the documents being edited, and integrate smoothly with the other tools in the environme ...

Keywords: Ladle, Pan, coherent user interfaces, colander, contextual constraint, extension facilities, grammatical abstraction, interactive programming environment, logic programming, logical constraint grammar, reason maintenance, syntax-recognizing editor, tolerance for errors and anomalies

6 The Pan language-based editing system for integrated development
Robert A. Ballance, Susan L. Graham, Michael L. Van De Vanter
October 1990 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth ACM SIGSOFT symposium on Software development environments**, Volume 15 Issue 6

Full text available: pdf(2.11 MB) Additional Information: full citation, abstract, references, citings, index terms

Powerful editing systems for developing complex software documents are difficult to engineer. Besides requiring efficient incremental algorithms and complex data structures, such editors must integrate smoothly with the other tools in the environment, maintain a sharable database of information concerning the documents being edited, accommodate flexible editing styles, provide a consistent, coherent, and empowering user interface, and support individual variations and project-wide configura ...

7 A software model and specification language for non-WIMP user interfaces
Robert J. K. Jacob, Leonidas Deligiannidis, Stephen Morrison

March 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 1

Full text available: pdf(574.62 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a software model and language for describing and programming the fine-grained aspects of interaction in a non-WIMP user interface, such as a virtual environment. Our approach is based on our view that the essence of a non-WIMP dialogue is a set of continuous relationships—most of which are temporary. The model combines a data-flow or constraint-like component for the continuous relationships with an event-based component for discrete interactions, which can enable or diabl ...

Keywords: PMIW, interaction techiques, non-WIMP interface, specification language, state transition diagram, user interface management system (UIMS)

8 Inhabited television: broadcasting interaction from within collaborative virtual environments

December 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 4

Full text available: pdf(708.21 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Inhabited television combines collaborative virtual environments (CVEs) with broadcast television so that on-line audiences can participate in television shows within shared virtual worlds. We describe a series of experiments with inhabited television, beginning with the NOWninety6 poetry performance, The Mirror, and Heaven & Hell—Live. These early experiments raised fundamental questions for inhabited television concerning the extent to which it is possible to establish fast-pace ...

Keywords: computer-supported cooperative work, entertainment, media spaces, social interaction

9 The p2d2 project: building a portable distributed debugger

Robert Hood

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

10 Interaction techniques for 3D modeling on large displays

Tovi Grossman, Ravin Balakrishnan, Gordon Kurtenbach, George Fitzmaurice, Azam Khan, Bill Buxton

March 2001 **Proceedings of the 2001 symposium on Interactive 3D graphics**

Full text available: pdf(1.80 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: 3D modeling, interaction techniques, large scale displays, tape drawing, two-handed input

11 "Composability": widening participation in music making for people with disabilities via music software and controller solutions

Tim Anderson, Clare Smith

April 1996 **Proceedings of the second annual ACM conference on Assistive technologies**

Full text available: pdf(995.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: MIDI, adaptive technology, composition, education, music, physical disability, visual impairment

12 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Full text available: pdf(2.54 MB) Additional Information: full citation

13 "Smart clothing": wearable multimedia computing and "personal imaging" to restore the technological balance between people and their environments
Steve Mann
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: augmented reality, mediated reality, mobile multimedia, pencigraphic image compositing, personal imaging, smart spaces, ubiquitous computing, video orbits, video surveillance, wearable computing

14 Working out usability: Model-based heuristic evaluation of hypermedia usability
Franca Garzotto, Maristella Matera, Paolo Paolini
May 1998 **Proceedings of the working conference on Advanced visual interfaces**
Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references

This paper presents a systematic approach to the heuristic evaluation of hypermedia that specifically addresses the peculiar features of this class of systems. We propose a set of hypermedia-specific usability attributes and define general "patterns of evaluation activities" called *abstract tasks* that can be performed by usability experts to check such attributes systematically. The usage of abstract tasks makes application inspection more effective, since it guides the work of evaluators ...

Keywords: heuristic evaluation, hypermedia evaluation, hypermedia modeling, usability

15 Ensemble: a graphical user interface development system for the design and use of interactive toolkits
M. K. Powers
November 1989 **Proceedings of the 2nd annual ACM SIGGRAPH symposium on User interface software and technology**
Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, index terms

User Interface Development Systems (UIDS), as opposed to User Interface Management Systems or UI Toolkits focus on supporting the design and implementation of the user interface. This paper describes Ensemble, an experimental UIDS that begins to explore the electronic creation of interaction techniques as well as the corresponding design processes. Issues related to the impact on the components of the development system are discussed.

Finally, problems with the current implementation and fu ...

16 Generating editing environments based on relations and attributes
Susan Horwitz, Tim Teitelbaum
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The ability to generate language-based editors depends on the existence of a powerful, language-independent model of editing. A model is proposed in which programs are represented as attributed abstract-syntax trees with an associated relational database. Relations can depend on the state of the attributed tree, and attributes can depend on the values in relations, provided there are no circular dependencies. The power and the limitations of relational operations are demonstrated ...

17 Relations and attributes: A symbiotic basis for editing environments
Susan Horwitz, Tim Teitelbaum
June 1983 **Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 18 , 20 Issue 6 , 7
Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, citings, index terms

The ability to generate language-based editors depends on the existence of a powerful, language-independent model of editing. A model is proposed in which programs are represented as attributed abstract-syntax trees with an associated relational database. Relations can depend on the state of the attributed tree, and attributes can depend on the values in relations, provided there are no circular dependencies. The power and the limitations of relational operations are demonstrated ...

18 FORMANAGER: an office forms management system
S. Bing Yao, Alan R. Hevner, Zhongzhi Shi, Dawei Luo
August 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 3
Full text available: pdf(1.35 MB) Additional Information: full citation, citings, index terms

19 Collaborative customer services using synchronous Web browser sharing
Makoto Kobayashi, Masahide Shinozaki, Takashi Sakairi, Maroun Touma, Shahrokh Daijavad, Catherine Wolf
November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**
Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

Keywords: CSCW, Weg-collaboration customer services, collaboration architecture, synchronous Web brower sharing

20 Queries? Links? Is there a difference?
Gene Golovchinsky
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

Keywords: browsing, dynamic links, hypertext, information exploration, information retrieval, newspaper metaphor

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S24	756	(345/619).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 09:09
S25	756	(345/619).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 09:09

S26	50	("5621905" "6339439" "5341466" "5877775" "5737554" "5852439" "5255359" "5751373" "4764885" "5621430" "5680152" "6018333" "5262761" "5355497" "5548703" "5790819" "5898435" "5910801" "6154213" "6184884" "6256030" "5481741" "5977948" "5886700" "6433775" "5986657" "5701137" "5565888" "5736974" "5914746" "6175364" "5895474" "5528735" "5671381" "5861885" "4967372" "5311294" "6099579" "5835096" "5799107" "6353438" "5297253" "5627960" "6122634" "6148311" "5187789" "6078327" "6191786" "6205453" "5222201").pn.	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:10
S27	50	("6314205" "6393145" "5696914" "5974253" "5910803" "5812141" "4868785" "5544067" "5623418" "5801958" "5867399" "5555201" "5933143" "6470482" "6549219" "5197124" "5201033" "5631652" "5261042" "5859963" "6041324" "5995101" "4811205" "5206934" "6021403" "6233570" "5446838" "5544301" "5682550" "5742778" "5760788" "5886683" "5956018" "5986653" "6078324" "6104400" "6118939" "6141011" "6151030" "6232970" "6260035" "6278453" "6310634" "6359636" "6366297" "6417874" "6686931" "5784052" "5831600" "4340777").pn.	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:22
S28	33665	(main adj level) or (first adj level)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:28
S29	1130529	diagram	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:23
S30	31947	(second adj level) or (sub-level$2) or (sub adj level$2)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:29
S31	688	((main adj level) or (first adj level)) same diagram same ((second adj level) or (sub-level$2) or (sub adj level$2))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:24
S32	33	diagram near5 (((main adj level) or (first adj level)) near5 ((second adj level) or (sub-level$2) or (sub adj level$2)))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:24
S33	36535	hierarchical	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:15
S34	131	hierarchical adj diagram	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:25

S35	0	(hierarchical adj diagram) same ((main adj level) or (first adj level)) same ((second adj level) or (sub-level$2) or (sub adj level$2))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:25
S36	5	(hierarchical adj diagram) and ((main adj level) or (first adj level)) same ((second adj level) or (sub-level$2) or (sub adj level$2))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:25
S37	106767	(main adj (level or layer)) or (first adj (level or layer))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:28
S38	75101	(main adj layer) or (first adj layer)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:29
S39	77085	(second adj layer) or (sub-layer$2) or (sub adj layer$2)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:29
S40	0	(hierarchical adj diagram) same ((main adj (level or layer)) or (first adj (level or layer))) same ((main adj layer) or (first adj layer))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:29
S41	2	(hierarchical adj diagram) and ((main adj (level or layer)) or (first adj (level or layer))) same ((main adj layer) or (first adj layer))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:31
S42	1	PaintShopPro	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:31
S43	30	Jasc adj Software and paint	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:33
S44	13	adobe and paintshop	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:37
S45	256	(345/841).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 09:39
S46	50289	cursor$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:40
S47	143	((345/841).CCLS.) and cursor$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:44
S48	1	("6256028").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 09:42
S49	1158423	proximity or location	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:44
S50	97	(((345/841).CCLS.) and cursor$2) and (proximity or location)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:45
S51	7874	(proximity or location) same cursor$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:45
S52	39	((345/841).CCLS.) and ((proximity or location) same cursor$2)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:55

S53	116	mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:56
S54	0	(((345/841).CCLS.) and ((proximity or location) same cursor$2)) and mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:56
S55	0	((345/841).CCLS.) and mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:56
S56	4099	((345/854).CCLS.) or ((345/764).CCLS.) or ((345/841).CCLS.) or ((345/157).CCLS.) or ((345/810).CCLS.) or ((345/862).CCLS.) or ((345/619).CCLS.) or ((345/619).CCLS.)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:56
S57	1422	mouseover or (mouse adj over) or (mouse-over)	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:57
S58	107	(((345/854).CCLS.) or ((345/764).CCLS.) or ((345/841).CCLS.) or ((345/157).CCLS.) or ((345/810).CCLS.) or ((345/862).CCLS.) or ((345/619).CCLS.) or ((345/619).CCLS.)) and (mouseover or (mouse adj over) or (mouse-over))	US-PGPUB; USPAT	OR	OFF	2004/07/28 09:57
S59	54	((proximity or location) same cursor$2) and ((((345/854).CCLS.) or ((345/764).CCLS.) or ((345/841).CCLS.) or ((345/157).CCLS.) or ((345/810).CCLS.) or ((345/862).CCLS.) or ((345/619).CCLS.) or ((345/619).CCLS.)) and (mouseover or (mouse adj over) or (mouse-over)))	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:20
S60	279	(715/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 10:20
S61	7	(715/902).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 10:20
S62	20	(715/907).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 10:20
S63	292	((715/514).CCLS.) or ((715/902).CCLS.) or ((715/907).CCLS.)	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:20
S64	9	(((715/514).CCLS.) or ((715/902).CCLS.) or ((715/907).CCLS.)) and (mouseover or (mouse adj over) or (mouse-over))	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:22

S65	7	(((715/514).CCLS.) or ((715/902).CCLS.) or ((715/907).CCLS.)) and (mouseover or (mouse adj over) or (mouse-over)) and cursor$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:24
S66	518219	event	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:24
S67	44	(mouseover or (mouse adj over) or (mouse-over)) adj event	US-PGPUB; USPAT	OR	OFF	2004/07/28 10:24
S68	739434	flowchart or (flow-chart) or (flow adj chart) or (block adj diagram)	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:00
S69	31372	(hot adj spot) or hotspot or (active adj region)	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:01
S70	277	(flowchart or (flow-chart) or (flow adj chart) or (block adj diagram)) same ((hot adj spot) or hotspot or (active adj region))	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:01
S71	2234021	level$2 or layer$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:01
S72	230	((flowchart or (flow-chart) or (flow adj chart) or (block adj diagram)) same ((hot adj spot) or hotspot or (active adj region))) and (level$2 or layer$2)	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:02
S73	38907	cursor	US-PGPUB; USPAT	OR	OFF	2004/07/28 11:02
S74	54	(((flowchart or (flow-chart) or (flow adj chart) or (block adj diagram)) same ((hot adj spot) or hotspot or (active adj region))) and (level$2 or layer$2)) and cursor	US-PGPUB; USPAT	OR	OFF	2004/07/28 12:25
S75	131	hierarchical adj diagram	US-PGPUB; USPAT	OR	OFF	2004/07/28 12:25
S76	57358	navigat$4	US-PGPUB; USPAT	OR	OFF	2004/07/28 12:25
S77	50289	cursor$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 12:25
S78	704129	display$4	US-PGPUB; USPAT	OR	OFF	2004/07/28 12:25
S79	8	(hierarchical adj diagram) and navigat$4 and cursor$2 and display$4	US-PGPUB; USPAT	OR	OFF	2004/07/29 10:40
S80	1	navigating adj diagram$3	US-PGPUB; USPAT	OR	OFF	2004/07/28 13:56
S81	2	navigating adj flowchart$3	US-PGPUB; USPAT	OR	OFF	2004/07/28 13:58
S82	0	navigating adj block adj diagram$2	US-PGPUB; USPAT	OR	OFF	2004/07/28 13:58

S83	1	stateflow same edit$3	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:00
S84	102952	second adj (layer or level)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:03
S85	30812	control near6 passed	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:01
S86	45	(second adj (layer or level)) same (control near6 passed)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:03
S87	38907	cursor	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:03
S88	172546	(second or multi$3 or extra) adj (layer or level)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:04
S89	62	((second or multi$3 or extra) adj (layer or level)) same (control near6 passed)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:08
S90	1	(((second or multi$3 or extra) adj (layer or level)) same (control near6 passed)) and cursor	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:04
S91	61	(345/797).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/28 14:15
S92	2228	mouseover or (mouse adj over) or hotspot	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:43
S93	0	((345/797).CCLS.) and (mouseover or (mouse adj over) or hotspot)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:16
S94	36	((345/797).CCLS.) and cursor	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:27
S95	1956	(mov$3 or position$3 or slid$3 or locat$3) adj (mouse or pointer or cursor) adj over	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:28
S96	1130529	diagram	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:28
S97	58	((mov$3 or position$3 or slid$3 or locat$3) adj (mouse or pointer or cursor) adj over) same diagram	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:29

S98	29	(US-6642946-$ or US-6515656-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6396488-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-5651107-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:43
S99	17	(mouseover or (mouse adj over) or hotspot) and ((US-6642946-$ or US-6515656-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6396488-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-5651107-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:43
S100	942	mouseover or hotspot	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:43

S10 1	5	((US-6642946-$ or US-6515656-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6396488-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-5651107-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and (mouseover or hotspot)	US-PGPUB; USPAT	OR	OFF	2004/07/28 14:43
S10 2	29	(US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:58
S10 3	81558	reference near4 (level or layer)	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:25

S104	1	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and (reference near4 (level or layer))	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:25
S105	384064	reference same (level or layer)	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:25
S106	8	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and (reference same (level or layer))	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:43
S107	24816	active adj region	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:43

S108	1	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and (active adj region)	US-PGPUB; USPAT	OR	OFF	2004/07/29 07:43
S109	1	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and Halpert	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:02
S110	22	Sylor	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:02

S11 1	1	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and Sylor	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:07
S11 2	2	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and Graham	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:13

S113	0	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and (cursor adj speed)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:13
S114	171	cursor adj speed	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:14
S115	581535	display	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:14
S116	48	(cursor adj speed) same display	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:17
S117	1734	replace near3 (document or diagram or display)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:17
S118	7249	replac$3 near3 (document or diagram or display)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:17
S119	0	(cursor adj speed) same (replac$3 near3 (document or diagram or display))	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:18
S120	1	(cursor adj speed) and (replac$3 near3 (document or diagram or display))	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:24
S121	330848	flowchart or (flow adj chart) or flow-chart	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:39

S122	18	(flowchart or (flow adj chart) or flow-chart) and ((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:25
S123	1216092	document or diagram	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:25
S124	30119	(flowchart or (flow adj chart) or flow-chart) same (document or diagram)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:25
S125	2	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and ((flowchart or (flow adj chart) or flow-chart) same (document or diagram))	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:30
S126	5140	(editor or editing or edit) near3 program	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:31
S127	9	stateflow	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:31

S128	1	((editor or editing or edit) near3 program) and stateflow	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:34
S129	244	block adj diagram adj (editor or editing)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:35
S130	57532	navigat$4	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:35
S131	22	(block adj diagram adj (editor or editing)) and navigat$4	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:36
S132	0	(block adj diagram adj (editor or editing)) same navigat$4	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:35
S133	1	("4901221").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/29 08:37
S134	0	(flowchart or (flow adj chart) or flow-chart) adj drawing adj (program or application)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:39
S135	0	(flowchart or (flow adj chart) or flow-chart) adj construction adj (program or application)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:40
S136	4610	(flowchart or (flow adj chart) or flow-chart) adj (program or application)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:40
S137	34	navigat$4 same ((flowchart or (flow adj chart) or flow-chart) adj (program or application))	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:41
S138	270	generat$3 adj (flowchart or (flow adj chart) or flow-chart)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:47
S139	3714	time adj parameter	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:48
S140	188574	cursor or mouse	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:48
S141	32	(time adj parameter) same (cursor or mouse)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:48
S142	1	sustained adj mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:52
S143	256356	time adj period$2	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:52
S144	116	mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:52
S145	1	(time adj period$2) same mouseover	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:54
S146	48	display same (cursor adj speed)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:55
S147	1	(navigat$4 same display) same (cursor adj speed)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:56

S148	10	(navigat$4 same display) and (cursor adj speed)	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:56
S149	171	cursor adj speed	US-PGPUB; USPAT	OR	OFF	2004/07/29 08:56
S150	2844	size same icon	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:07
S151	1	(((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and Sylor) and (size same icon)	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:10
S152	1563781	construction or edit$3 or manipulat$4	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:11
S153	317	(flowchart or (flow adj chart) or flow-chart) adj (construction or edit$3 or manipulat$4)	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:11
S154	588393	program or software	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:11
S155	50	((flowchart or (flow adj chart) or flow-chart) adj (construction or edit$3 or manipulat$4)) same (program or software)	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:23

S156	1	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and Durham	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:20
S157	0	((US-6642946-$ or US-6515656-$ or US-6396488-$ or US-5651107-$ or US-5583977-$ or US-5664180-$ or US-6731315-$ or US-6359635-$ or US-6714215-$ or US-6580416-$ or US-6356256-$ or US-6285374-$ or US-5982372-$ or US-5844557-$ or US-5436637-$ or US-6760048-$ or US-6657644-$ or US-6512529-$ or US-5046001-$ or US-6647534-$).did. or (US-20010045965-$ or US-20020054161-$ or US-20020186238-$ or US-20020126990-$ or US-20020124100-$ or US-20020094868-$ or US-20020083188-$ or US-20010032248-$ or US-20010016807-$).did.) and slotnick	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:21
S158	38996	cursor	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:23
S159	229582	time adj period	US-PGPUB; USPAT	OR	OFF	2004/07/29 09:24
S160	1	("6256028").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/29 10:40
S161	8	(transfer$3) adj control near2 cursor	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:10
S162	171	cursor adj speed	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:11

S163	57	(cursor adj speed) same mouse	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:11
S164	17	(cursor adj speed) same mouse same display	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:15
S165	106	cursor near5 speed near5 determin$3	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:18
S166	0	cursor same (escape adj rate)	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:18
S167	0	cursor same (escape adj speed)	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:18
S168	48	cursor same dwell same time	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:22
S169	2	cursor same (sub-level or (sub adj level))	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:25
S170	1	cursor same (appear$1 or move$2) same (sub-level or (sub adj level))	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:34
S171	0	cursor same (appear$1 or move$2) same (sub-level or (sub adj level))	DERWENT	OR	OFF	2004/07/29 14:34
S172	0	cursor same (sub-level or (sub adj level))	DERWENT	OR	OFF	2004/07/29 14:35
S173	56	transfer same cursor same control	DERWENT	OR	OFF	2004/07/29 14:38
S174	76	cascading adj menus	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:39
S175	24	(cascading adj menus) and cursor	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:42
S176	1471	active adj window	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:42
S177	38996	cursor	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:42
S178	266	(active adj window) same cursor	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:46
S179	159	(active adj window) same cursor same (transfer$2 or mov$3)	US-PGPUB; USPAT	OR	OFF	2004/07/29 14:47
S188	2724902	application	US-PGPUB; USPAT	OR	OFF	2005/09/13 08:46
S189	554	wormhole$1	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:41
S190	22627	hotspot$1 or hot-spot$1 or (hot adj spot$1)	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:41
S191	0	S189 same S190	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:41
S192	706473	display	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:41

S193	1060	S190 same S192	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:42
S194	394543	larger same smaller	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:43
S195	1	S193 same S194	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:42
S196	579897	grow$3	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:43
S197	506	S190 same S196	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:43
S198	10	S197 same S192	US-PGPUB; USPAT	OR	OFF	2005/09/13 16:43
S199	331	(715/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:35
S200	63	(715/712).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:35
S201	64	(715/713).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:35
S202	10	(715/796).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:35
S203	116	(715/802).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:35
S204	432	(715/804).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:36
S205	85	(715/805).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 08:36
S206	73921	hierarchical or hierarchy	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:15
S207	1640397	diagram$1 or tree$1 or window$1	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:16
S208	23210	wormhole$1 or worm-hole$1 or hotspot$1 or hot-spot$1 or (hot adj spot$1)	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:16
S209	1045	S207 same S208	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:16
S210	1026	S199 or S200 or S201 or S202 or S203 or S204 or S205	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:17
S211	14	S209 and S210	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:19

S212	60143	cursor$1	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:19
S213	124	S209 same S212	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:36
S214	4	S213 and S210	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:19
S215	696210	grow$3 or shrink$3	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:22
S216	1	S213 same S215	US-PGPUB; USPAT	OR	OFF	2005/09/14 09:22
S217	24224	warping	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:37
S218	151963	pointer$1 or cursor$1	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:37
S219	26	S217 with S218	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:41
S220	1	("5745100").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:44
S221	1	("5737555").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/14 11:44
S222	1	Method simplifying accurate positioning mouse pointer	IBM_TDB	WITH	OFF	2005/09/14 11:45
S223	1	("6256028").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/16 12:08
S224	1	("5671381").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/16 15:14
S225	1	("6253218").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:17
S226	34529	zoom$3	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:17
S227	228695	progressive$2	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:17
S228	9	S226 adj S227	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:17
S229	89963	tunnel$3	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S230	138	S226 same S229	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S231	292765	3D or (three adj dimensional) or (S228 adj dimensional)	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S232	300298	S231 or 3-D	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S233	1382934	perspective$1	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S234	11978	panning	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18

S235	35274	tracing	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:18
S236	14317	S232 same S233	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:19
S237	227	S226 same S236	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:19
S238	17	S234 same S235	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:19
S239	62	S235 and S234 and S233 and S232 and S226	US-PGPUB; USPAT	OR	OFF	2005/09/16 16:20
S240	332	(715/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 06:33
S241	58	(715/768).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 06:33
S242	560	(715/781).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 06:33
S243	1358	(345/157).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 06:39
S244	977	(345/619).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/20 06:39
S245	160	hierarchical adj diagram	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:40
S246	0	(((345/841).CCLS.) and cursor$2) and (proximity or location)	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:36
S247	2436	(mov$3 or position$3 or slid$3 or locat$3) adj (mouse or pointer or cursor) adj over	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:38
S248	22709	hotspot$1 or hot-spot$1 or (hot adj spot$1)	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:36
S249	708892	display	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:36
S250	1066	S248 same S249	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:36
S251	581564	grow$3	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S252	507	S248 same S251	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:38
S253	58	transfer same cursor same control	DERWENT	OR	OFF	2005/09/20 06:37
S254	34576	zoom$3	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:38

S255	228836	progressive$2	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S256	9	S254 adj S255	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S257	293130	3D or (three adj dimensional) or (S256 adj dimensional)	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S258	300667	S257 or 3-D	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S259	1384196	perspective$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S260	14337	S258 same S259	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S261	228	S254 same S260	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S262	90074	tunnel$3	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37
S263	138	S254 same S262	US-PGPUB; USPAT	OR	OFF	2005/09/20 06:37

Interference Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	332	(715/514).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:04
S2	58	(715/768).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:04
S3	560	(715/781).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:04
S4	977	(345/619).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S5	80560	navigat$5	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S6	80028	hierarch$6	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S7	1368868	diagram$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S8	3198005	view$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S9	1889581	level$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S10	60348	cursor$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:06
S11	58143	active adj (region$1 or area$1 or location$1)	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:07
S12	22709	hotspot$1 or hot-spot$1 or (hot adj spot$1)	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:07
S13	560	wormhole$1	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:07
S14	1922969	size	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:08
S15	849	proximity with (cursor$1 or pointer$1)	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:08
S16	80165	S11 or S12	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:08
S17	13	S14 with S15	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:08
S18	0	S16 and S17 and S5 and S6 and S8 and S9	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:09
S19	0	S16 and S17 and S5 and S6 and S8	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:09
S20	0	S16 and S17 and S5 and S6	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:09
S21	995	S16 and S5 and S6	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:10
S22	3892	S5 same S6	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:10

S23	1377	S9 same S22	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:11
S24	63	S23 and S16	US-PGPUB; USPAT	OR	OFF	2005/09/20 07:11